REMARKS

Reconsideration of the present application is respectfully requested. As this paper is responsive to a final office action, it is submitted that the amendments submitted herein do not raise now issues or create new grounds for search. Accordingly, it is submitted that entry of this paper is appropriate at this time.

Claims 1-6 and 8 are presently under consideration. Claims 7 and 9 were previously withdrawn from consideration pursuant to election responsive to restriction, and claim 9 has been canceled herein. Furthermore, the applicants present claim 10 for the first time in this paper. Claim 10 combines the limitations of pending claims 1, 2, 4, and 5. Claim 10 is presented herein in view of the examiner's comment that such a claim would represent allowable subject matter (see July 22, 2005 office action at page 4). It is submitted that no fee is due for presentation of new independent claim 10, for the reason that this claim replaces canceled independent claim 9, which previously had been withdrawn from consideration.

Claim 1 previously presented is amended herein to indicate that the plasma unit turns pretreating gas into a plasma state <u>in air</u>. Claim 8 previously presented is amended herein to indicate that the pretreating unit for turning pretreating gas into a plasma state does so by arc discharge <u>in air</u>. Support can be found in the specification at page 4 and in particular at lines 4-7 and 27-28 thereof.

With the present invention, the sequence of processing from pretreatment to film formation can be achieved in air, as would be reflected in the claims upon entry of the amendments. Thus, as shown in the specification at page 7 line 28 to page 9 line 6, and in particular, page 8 line 20 to page 9 line 6, the laser CVD device can be used in a process for correcting defects in a mask pattern, with all of the attendant advantages set forth therein.

Rejection of Claims 1-4, 6 and 8 under 35 U.S.C. § 102 (b)/§ 103

Claims 1-4, 6 and 8 are rejected under 35 U.S.C. § 102 (b)/§ 103 as being anticipated by, or in the alternative, as being obvious from, Mikoshiba et al., U.S. Patent No. 5,803,974 (the Office Action erroneously lists the Number as 5,753,320). It is submitted that this rejection is traversed.

Among the problems recognized and solved by Applicant's claimed invention is that when laser CVD (chemical vapor deposition) is used to deposit film on a substrate, the film may crack or fail to adhere to the substrate. According to an aspect of Applicant's claimed invention, the substrate is pretreated with a plasma state gas in air prior to the CVD of the film.

For at least the following reasons, Applicant's claimed invention is neither anticipated by nor obvious from the cited references. By way of example, independent claims 1 and 8 require supplying the plasma gas to the substrate prior to a film formed by CVD.

Mikoshiba discloses a chemical vapor deposition apparatus, which performs a plasma CVD method (Mikoshiba, Abstract; column 1, lines 63-67). Mikoshiba does not disclose or suggest pretreating the substrate with plasma gas prior to the CVD of film, as *inter alia* required by independent claims 1 and 8. Mikoshiba does not mention pretreating the substrate with a plasma state gas in air prior to the CVD of the film. Therefore, Mikoshiba does not disclose or suggest the recitations of independent claims 1 and 8.

In fact, Mikoshiba belongs to the prior art recognized by Applicant's disclosure, because Mikoshiba does not disclose or suggest the above-cited problems recognized and solved by Applicant's claimed invention. For example, Mikoshiba does not disclose or suggest the

¹ The present discussion illustrates aspects of Applicant's claimed invention. Applicant does not represent that every embodiment of Applicant's claimed invention necessarily embodies or performance the solution herein discussed.

problem that when laser CVD (chemical vapor deposition) is used to deposit film on a substrate, the film may crack or fail to adhere to the substrate. Therefore, Mikoshiba does not even remotely disclose or suggest the recitations of independent claims 1 and 8

Claims 2-4 and 6 depend from independent claim 1 and thus incorporate novel and nonobvious features thereof. Accordingly, claims 2-4 and 6 are patentably distinguishable over the prior art for at least the reasons that independent claim 1 is patentably distinguishable over the prior art. Therefore, this rejection should now be withdrawn.

Rejection of Claims 1, 3 and 6 under 35 U.S.C. § 102 (b)/§ 103

Claims 1, 3 and 6 are rejected under 35 U.S.C. § 102 (b)/§ 103 as anticipated by, or in the alternative, as being obvious from Hongo, U.S. Patent No. 5,182,231. This rejection is traversed.

Hongo is directed to modifying wiring of a semiconductor device (Hongo, Abstract), such that a metal ion beam is sputtered onto a wafer prior to a laser CVD technique (Hongo, column 6, lines 6-57). The metal ion beam is for cutting a line and for window formation to the line for connection (Hongo, column 6, lines 47-50).

Hongo does not disclose or suggest pretreating using plasma on a substrate prior to CVD, as *inter alia* required by independent claims 1 and 8, and thus Hongo does not remedy the deficiencies of Mikoshiba as they related to Applicant's invention as claimed in independent claims 1 and 8. The Examiner seems to acknowledge that Hongo does not disclose or suggest this feature (Office Action, page 5).

Moreover, since Hongo does not disclose or suggest such pretreatment using plasma, Hongo is incapable of disclosing or suggesting turning the pretreating gas into a plasma state <u>in atmosphere</u>, as further required by independent claim 1. From this, it follows that Hongo

does not suggest pretreating the substrate with a plasma state gas in air prior to the CVD of the film. Therefore, Hongo does not disclose or suggest the recitations of independent claims 1 and 8.

Claims 3 and 6 depend from independent claim 1 and thus incorporate the novel and nonobvious features thereof. Thus, claim 3 and 6 are patentably distinguishable over the prior art for at least the reasons that independent claim 1 is patentably distinguishable over the prior art. Therefore, this rejection should now be withdrawn.

Rejection of Claims 1, 3 and 6 under 35 U.S.C. § 102 (b)/§ 103

Claims 1, 3 and 6 are rejected under 35 U.S.C. § 102 (b)/§ 103 as being anticipated by, or in the alternative, as being obvious from Hongo in view of Shvets, U.S. Patent No. 6,419,752. This rejection is traversed.

Shvets discloses a device for processing a substrate that facilitates various types of processes on a substrate. Shvets does not cure the deficiencies of Hongo as they relate to independent claims 1 and 8. Therefore, it is respectfully submitted that Hongo and Shvets, even taken together in combination, do not disclose or suggest the recitations of independent claims 1 and 8.

Moreover, there would have been no suggestion or motivation for combining

Hongo and Shvets. The Examiner provides no evidence that the metal ion beam sputtering for
cutting a line and for window formation to the line for connection (Hongo, column 6, lines 4750) of Hongo is comparable to the plasma gas pretreatment. Further, even if this were so, there
is no motivation for replacing the metal ion beam sputtering of Hongo with plasma gas
pretreatment to arrive at Applicant's claimed invention. Therefore, it is respectfully submitted

that Applicant's claimed invention would not have been obvious to a person of ordinary skill in the art without impermissible hindsight reconstruction based on Applicant's own disclosure.

Claims 3 and 6 depend from independent claim 1, and thus incorporate novel and nonobvious features thereof. Accordingly, claims 3 and 6 are patentably distinguishable over the prior art for at least the reasons that independent claim 1 is distinguishable over the prior art.

Therefore, this rejection should now be withdrawn.

Rejection of Claims 2, 4 and 8 are rejected under 35 U.S.C. § 103

Claims 2, 4 and 8 are rejected under 35 U.S.C. § 103 as being obvious from Hongo and Shvets in view of Tsuchimoto, U.S. Patent No. 4,123,316, Ono, U.S. Patent No. 5,108,535 and/or Mikoshiba. This rejection is traversed.

Hongo and Shvets in view of Tsuchimoto, Ono, and/or Mikoshiba, do not disclose or suggest turning pretreating gas into a plasma state prior to CVD of film, as *inter alia* required by independent claims 1 and 8. Thus, Tsuchimoto and Ono, even taken together in combination, do not cure the deficiencies of the previously discussed references as they relate to Applicant's invention as claimed in independent claims 1 and 8. Therefore, this rejection should now be withdrawn.

Wherefore, based upon the foregoing, it is submitted that the application is in condition of allowance and a relatively early reply to this paper would be appreciated.

Respectfully submitted,

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